

10/082,714

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
7.18	7.39

FULL ESTIMATED COST

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FILE 'USPATFULL' ENTERED AT 16:18:51 ON 23 SEP 2004
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*** YOU HAVE NEW MAIL ***

=> s biosensor and plurality (5a) electrode? and nucleic acid?
3 FILES SEARCHED...

L1 75 BIOSENSOR AND PLURALITY (5A) ELECTRODE? AND NUCLEIC ACID?

=> dup rem l1

PROCESSING COMPLETED FOR L1

L2 74 DUP REM L1 (1 DUPLICATE REMOVED)

=> s l2 and monitor?

L3 58 L2 AND MONITOR?

=> s l3 and hybridization

L4 33 L3 AND HYBRIDIZATION

=> s l4 and current

L5 31 L4 AND CURRENT

=> s 15 and electric potential
L6 17 L5 AND ELECTRIC POTENTIAL

=> d 16 bib abs 1-17

L6 ANSWER 1 OF 17 USPATFULL on STN
AN 2004:234268 USPATFULL
TI Computer program products and systems for rapidly changing the solution environment around sensors
IN Wigstrom, Joakim, Frolunda, SWEDEN
Sinclair, Jon, Goteborg, SWEDEN
PA Collectricon AB (non-U.S. corporation)
PI US 2004181343 A1 20040916
AI US 2003-698599 A1 20031031 (10)
PRAI US 2002-423197P 20021101 (60)
DT Utility
FS APPLICATION
LREP EDWARDS & ANGELL, LLP, P.O. Box 9169, Boston, MA, 02209
CLMN Number of Claims: 161
ECL Exemplary Claim: 1
DRWN 26 Drawing Page(s)
LN.CNT 3486
AB The invention provides computer program products for coordinating the movement of cells and other components in a microfluidic substrate with data acquisition. The microfluidic workstation may be used to examine the physiological responses of ion channels, receptors, neurons, and other cells to fluidic streams. The system may also be useful for screening compound libraries to search for novel classes of compounds, screening members of a given class of compounds for effects on specific ion channel proteins and receptors, and to rapidly determine dose-response curves in cell-based assays.

L6 ANSWER 2 OF 17 USPATFULL on STN
AN 2004:190094 USPATFULL
TI ELECTRONIC DETECTION OF BIOLOGICAL MOLECULES USING THIN LAYERS
IN Pisharody, Sobha M., Dublin, CA, UNITED STATES
Kunwar, Sandeep, Redwood City, CA, UNITED STATES
Mathai, George T., Dublin, CA, UNITED STATES
PI US 2004146863 A1 20040729
AI US 2001-970087 A1 20011002 (9)
PRAI US 2001-297583P 20010611 (60)
DT Utility
FS APPLICATION
LREP FENWICK & WEST LLP, SILICON VALLEY CENTER, 801 CALIFORNIA STREET, MOUNTAIN VIEW, CA, 94041
CLMN Number of Claims: 165
ECL Exemplary Claim: 1
DRWN 18 Drawing Page(s)
LN.CNT 2626
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB This invention provides novel sensors that facilitate the detection of essentially any analyte. In general, the biosensors of this invention utilize a binding agent (e.g. biomolecule) to specifically bind to one or more target analytes. In preferred embodiments, the biomolecules spans a gap between two electrodes. Binding of the target analyte changes conductivity of the sensor thereby facilitating ready detection of the binding event and thus detection and/or quantitation of the bound analyte. A molecular sensing apparatus comprising.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 3 OF 17 USPATFULL on STN

AN 2004:190080 USPATFULL
TI Biochips including ion transport detecting structures and methods of use
IN Huang, Mingxian, San Diego, CA, UNITED STATES
Rothwarf, David, La Jolla, CA, UNITED STATES
Xu, Jia, San Diego, CA, UNITED STATES
Wang, Xiaobo, San Diego, CA, UNITED STATES
Wu, Lei, San Diego, CA, UNITED STATES
Guia, Antonio, San Diego, CA, UNITED STATES
PI US 2004146849 A1 20040729
AI US 2003-642014 A1 20030816 (10)
RLI Continuation-in-part of Ser. No. US 2003-351019, filed on 23 Jan 2003,
ABANDONED
PRAI US 2002-351849P 20020124 (60)
US 2002-380007P 20020504 (60)
DT Utility
FS APPLICATION
LREP DAVID R PRESTON & ASSOCIATES, 12625 HIGH BLUFF DRIVE, SUITE 205, SAN
DIEGO, CA, 92130
CLMN Number of Claims: 11
ECL Exemplary Claim: 1
DRWN 43 Drawing Page(s)
LN.CNT 6215
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention recognizes that the determination of an ion
transport function or property using direct detection methods, such as
patch-clamps, whole cell recording or single channel recording, are
preferable to methods that utilize indirect detection methods, such as
FRET based detection system. The present invention provides biochips and
methods of use that allow for the direct analysis of ion transport
functions or properties using microfabricated structures that can allow
for automated detection of one or more ion transport functions or
properties. These biochips and methods of use thereof are particularly
appropriate for automating the detection of ion transport functions or
properties, particularly for screening purposes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 4 OF 17 USPATFULL on STN
AN 2004:166597 USPATFULL
TI Method of analyzing the time-varying electrical response of a stimulated
target substance
IN Laletin, William H., Slidell, LA, UNITED STATES
Salloux, Kurt, Topanga, CA, UNITED STATES
PI US 2004128088 A1 20040701
AI US 2003-666567 A1 20030919 (10)
RLI Continuation-in-part of Ser. No. US 2003-443230, filed on 21 May 2003,
PENDING Continuation-in-part of Ser. No. US 1998-122181, filed on 24 Jul
1998, PENDING Continuation-in-part of Ser. No. WO 1997-US5002, filed on
27 Mar 1997, PENDING
PRAI US 1997-54466P 19970725 (60)
US 1996-14159P 19960327 (60)
DT Utility
FS APPLICATION
LREP Mark S. Leonardo, Esq., Brown Rudnick Berlack Israels LLP, One Financial
Center, Boston, MA, 02111
CLMN Number of Claims: 25
ECL Exemplary Claim: 1
DRWN 59 Drawing Page(s)
LN.CNT 1775
AB A time varying electrical excitation(s) is applied to a system
containing biologic and/or non-biologic elements, whereupon the
time-varying electrochemical or electrical response is detected and
analyzed. For biologic specimens, the presence, activity, concentration
or relative quantity, and certain inherent characteristics of certain

target substances (hereinafter referred to as "target analytes") within, or comprising, the specimen of interest may be determined by measuring either the **current** response induced by a voltage-mode excitation, or the voltage response induced by a **current**-mode excitation. Labeling or marker techniques may be employed, whereby electrochemically active auxiliary molecules are attached to the substance to be analyzed, in order to facilitate or enhance the electrochemical or electrical response. The method may also be employed to test non-biologic systems comprising an electrochemical cell or a battery of cells, wherein complex pulse type excitation signals are applied to the cell and the resultant time varying polarization voltage information is extracted and analyzed to determine at least one characteristic of the cell(s) condition or state.

L6 ANSWER 5 OF 17 USPATFULL on STN
AN 2004:113586 USPATFULL
TI Multi-array, multi-specific electrochemiluminescence testing
IN Wohlstadter, Jacob N., Rockville, MD, UNITED STATES
Wilbur, James, Germantown, MD, UNITED STATES
Signal, George, Rockville, MD, UNITED STATES
Martin, Mark, Rockville, MD, UNITED STATES
Guo, Liang-Hong, Gaithersburg, MD, UNITED STATES
Fischer, Alan, Cambridge, MA, UNITED STATES
Leland, Jon, Silver Spring, MD, UNITED STATES
Billadeau, Mark A., Mt. Airy, MD, UNITED STATES
Helms, Larry R., Germantown, MD, UNITED STATES
Darvari, Ramin, Waltham, MA, UNITED STATES
PI US 2004086423 A1 20040506
AI US 2003-693441 A1 20031024 (10)
RLI Division of Ser. No. US 1997-932110, filed on 17 Sep 1997, GRANTED, Pat. No. US 6673533 Continuation-in-part of Ser. No. US 1996-715163, filed on 17 Sep 1996, GRANTED, Pat. No. US 6207369 Continuation-in-part of Ser. No. US 1996-611804, filed on 6 Mar 1996, GRANTED, Pat. No. US 6066448 Continuation-in-part of Ser. No. US 1995-402076, filed on 10 Mar 1995, ABANDONED Continuation-in-part of Ser. No. US 1995-402277, filed on 10 Mar 1995, ABANDONED
DT Utility
FS APPLICATION
LREP KRAMER LEVIN NAFTALIS & FRANKEL LLP, INTELLECTUAL PROPERTY DEPARTMENT, 919 THIRD AVENUE, NEW YORK, NY, 10022
CLMN Number of Claims: 108
ECL Exemplary Claim: 1
DRWN 47 Drawing Page(s)
LN.CNT 7253
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Materials and methods are provided for producing patterned multi-array, multi-specific surfaces for use in diagnostics. The invention provides for electrochemiluminescence methods for detecting or measuring an analyte of interest. It also provides for novel electrodes for ECL assays. Materials and methods are provided for the chemical and/or physical control of conducting domains and reagent deposition for use multiply specific testing procedures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 6 OF 17 USPATFULL on STN
AN 2004:94706 USPATFULL
TI Electrochemical detection of **nucleic acid** sequences
IN Henkens, Robert W., Beaufort, NC, UNITED STATES
O'Daly, John P., Carrboro, NC, UNITED STATES
Wojciechowski, Marek, Cary, NC, UNITED STATES
Zhang, Honghua, San Diego, CA, UNITED STATES
Naser, Najih, Orlando, FL, UNITED STATES

Roe, R. Michael, Apex, NC, UNITED STATES
Stewart, Thomas N., Durham, NC, UNITED STATES
Thompson, Deborah M., Raleigh, NC, UNITED STATES
Sundseth, Rebecca, Durham, NC, UNITED STATES
Wegner, Steven E., Chapel Hill, NC, UNITED STATES

PI US 2004072158 A1 20040415
AI US 2002-82714 A1 20020225 (10)
RLI Division of Ser. No. US 2000-549853, filed on 14 Apr 2000, GRANTED, Pat.
No. US 6391558 Continuation-in-part of Ser. No. US 1998-44206, filed on
17 Mar 1998, ABANDONED
PRAI US 1997-40949P 19970318 (60)
DT Utility
FS APPLICATION
LREP Atten. Gregory A Nelson, Akerman Senterfitt, Suite 400, 222 Lakeview
Avenue P O Box 3188, West Palm Beach, FL, 33402-3188
CLMN Number of Claims: 21
ECL Exemplary Claim: 1
DRWN 20 Drawing Page(s)
LN.CNT 4480

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An electrochemical detection system which specifically detects selected
nucleic acid segments is described. The system
utilizes biological probes such as **nucleic acid** or
peptide **nucleic acid** probes which are complementary
to and specifically hybridize with selected **nucleic**
acid segments in order to generate a measurable **current**
when an amperometric potential is applied. The electrochemical signal
can be quantified.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 7 OF 17 USPATFULL on STN
AN 2004:4360 USPATFULL
TI Multi-array multi-specific electrochemiluminescence testing
IN Wohlstadtter, Jacob N., Rockville, MD, United States
Wilbur, James, Germantown, MD, United States
Sigal, George, Rockville, MD, United States
Martin, Mark, Rockville, MD, United States
Guo, Liang-Hong, Gaithersburg, MD, United States
Fischer, Alan, Cambridge, MA, United States
Leland, Jon, Silver Spring, MD, United States
Billadeau, Mark A., Mt. Airy, MD, United States
Helms, Larry R., Germantown, MD, United States
Darvari, Ramin, Waltham, MA, United States
PA Meso Scale Technologies, LLC., Gaithersburg, MD, United States (U.S.
corporation)
PI US 6673533 B1 20040106
AI US 1997-932110 19970917 (8)
RLI Continuation-in-part of Ser. No. US 1996-715163, filed on 17 Sep 1996,
now patented, Pat. No. US 6207369 Continuation-in-part of Ser. No. US
1996-611804, filed on 6 Mar 1996, now patented, Pat. No. US 6066448
Continuation-in-part of Ser. No. US 1995-402076, filed on 10 Mar 1995,
now abandoned Continuation-in-part of Ser. No. US 1995-402277, filed on
10 Mar 1995, now abandoned
DT Utility
FS GRANTED
EXNAM Primary Examiner: Chin, Christopher L.
LREP Kramer Levin Naftalis & Frankel LLP, Evans, Esq., Barry
CLMN Number of Claims: 92
ECL Exemplary Claim: 1
DRWN 87 Drawing Figure(s); 47 Drawing Page(s)
LN.CNT 7196

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Materials and methods are provided for producing patterned multi-array,

multi-specific surfaces for use in diagnostics. The invention provides for electrochemiluminescence methods for detecting or measuring an analyte of interest. It also provides for novel electrodes for ECL assays. Materials and methods are provided for the chemical and/or physical control of conducting domains and reagent deposition for use multiply specific testing procedures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 8 OF 17 USPATFULL on STN
AN 2003:318643 USPATFULL
TI Association of molecules with electrodes of an array of electrodes
IN Kunwar, Sandeep, Hillsborough, CA, UNITED STATES
Pisharody, Sobha, Castro Valley, CA, UNITED STATES
Mathai, George Thomas, Castro Valley, CA, UNITED STATES
Scaboo, Kristian, Castro Valley, CA, UNITED STATES
PI US 2003224387 A1 20031204
AI US 2002-327868 A1 20021226 (10)
PRAI US 2002-382074P 20020522 (60)
DT Utility
FS APPLICATION
LREP PENNIE & EDMONDS LLP, 1667 K STREET NW, SUITE 1000, WASHINGTON, DC,
20006
CLMN Number of Claims: 149
ECL Exemplary Claim: 1
DRWN 15 Drawing Page(s)
LN.CNT 3046

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a method for selectively modifying electrodes of an array of electrodes. The array of electrodes may be used as a sensor or **biosensor** to determine the presence of and/or identity of each of a plurality of analyte molecules. In accordance with the present invention, electrodes of each of a number N subsets of electrodes of an array of electrodes are contacted with a respective liquid, each of which comprises a respective, different molecule. For each subset of the N subsets of electrodes, at least one of the member electrodes is deprotected to allow molecules of the respective liquid to associate with the deprotected electrode. The steps of contacting subsets of electrodes and deprotecting selected electrodes is repeated until each electrode in the array has been associated with a predetermined molecule.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 9 OF 17 USPATFULL on STN
AN 2003:288636 USPATFULL
TI Detection of a target in a sample
IN Eichen, Yoav, Haifa, ISRAEL
Sivan, Uri, Haifa, ISRAEL
Braun, Erez, Haifa, ISRAEL
PI US 2003203394 A1 20031030
AI US 2003-452139 A1 20030603 (10)
RLI Continuation of Ser. No. US 2001-674090, filed on 1 Mar 2001, PENDING A
371 of International Ser. No. WO 1999-IL232, filed on 4 May 1999,
UNKNOWN
PRAI IL 1998-124322 19980504
DT Utility
FS APPLICATION
LREP DICKSTEIN SHAPIRO MORIN & OSHINSKY LLP, 2101 L STREET NW, WASHINGTON,
DC, 20037-1526
CLMN Number of Claims: 15
ECL Exemplary Claim: 1
DRWN 44 Drawing Page(s)
LN.CNT 2134

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The invention concerns a system, device, kit and method for detecting the presence, or concentration of a target in a sample. An assay set comprising at least two spaced apart electrodes is used, comprising a recognition moiety, capable of specific binding to the target, which is attached to at least one of the electrodes or the substrate therein between. If the recognition moiety binds the target then a conductive bridge can be formed between the electrodes, based on the complex between the recognition moiety and the target. The conductive bridge is formed by using nucleation-center forming entities attached to said complexes or to said targets from which a conductive substance is substantially grown. Alternatively the conducting bridge forms a conductive polymer between the electrodes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 10 OF 17 USPATFULL on STN

AN 2002:322463 USPATFULL

TI Biochips including ion transport detecting structures and methods of use

IN Wang, Xiaobo, San Diego, CA, UNITED STATES

Wu, Lei, San Diego, CA, UNITED STATES

Xu, Jun Quan, Beijing, CHINA

Huang, Ming Xiang, San Diego, CA, UNITED STATES

Yang, Weiping, San Diego, CA, UNITED STATES

Cheng, Jing, Beijing, CHINA

Xu, Jia, San Diego, CA, UNITED STATES

PI US 2002182627 A1 20021205

AI US 2002-104300 A1 20020322 (10)

PRAI US 2001-311327P 20010810 (60)

US 2001-278308P 20010324 (60)

DT Utility

FS APPLICATION

LREP DAVID R PRESTON & ASSOCIATES, 12625 HIGH BLUFF DRIVE, SUITE 205, SAN DIEGO, CA, 92130

CLMN Number of Claims: 59

ECL Exemplary Claim: 1

DRWN 24 Drawing Page(s)

LN.CNT 5459

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention recognizes that the determination of ion transport function or property using direct detection methods, such as patch-clamps, whole cell recording or single channel recording, are preferable to methods that utilize indirect detection methods, such as FRET based detection system. The present invention provides biochips and methods of use that allow for the direct analysis of ion transport function or property using microfabricated structures that can allow for automated detection of ion transport function or property. These biochips and methods of use thereof are particularly appropriate for automating the detection of ion transport function or property, particularly for screening purposes.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 11 OF 17 USPATFULL on STN

AN 2002:116000 USPATFULL

TI Electrochemical detection of nucleic acid sequences

IN Henkens, Robert W., Beaufort, NC, United States

O'Daly, John P., Carrboro, NC, United States

Wojciechowski, Marek, Cary, NC, United States

Zhang, Honghua, San Diego, CA, United States

Naser, Najih, Orlando, FL, United States

Roe, R. Michael, Apex, NC, United States

Stewart, Thomas N., Durham, NC, United States

Thompson, Deborah M., Raleigh, NC, United States

Sundseth, Rebecca, Durham, NC, United States
Wegner, Steven E., Chapel Hill, NC, United States
PA Andcare, Inc., Durham, NC, United States (U.S. corporation)
PI US 6391558 B1 20020521
AI US 2000-549853 20000414 (9)
RLI Continuation-in-part of Ser. No. US 1998-44206, filed on 17 Mar 1998,
now abandoned
PRAI US 1997-40949P 19970318 (60)
DT Utility
FS GRANTED
EXNAM Primary Examiner: Riley, Jezia
LREP Akerman Senterfitt
CLMN Number of Claims: 27
ECL Exemplary Claim: 1
DRWN 22 Drawing Figure(s); 20 Drawing Page(s)
LN.CNT 4484

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB An electrochemical detection system which specifically detects selected
nucleic acid segments is described. The system
utilizes biological probes such as **nucleic acid** or
peptide **nucleic acid** probes which are complementary
to and specifically hybridize with selected **nucleic
acid** segments in order to generate a measurable **current**
when an amperometric potential is applied. The electrochemical signal
can be quantified.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 12 OF 17 USPATFULL on STN
AN 2001:155603 USPATFULL
TI Multi-array, multi-specific electrochemiluminescence testing
IN Wohlstadter, Jacob N., Rockville, MD, United States
Wilbur, James, Rockville, MD, United States
Sigal, George, Gaithersburg, MD, United States
Martin, Mark, Rockville, MD, United States
Guo, Liang-Hong, Laurel, MD, United States
Fischer, Alan, Cambridge, MA, United States
Leland, Jon, Silver Spring, MD, United States
Billadeau, Mark A., Mt. Airy, MD, United States
PA Meso Scale Technologies, LLC (U.S. corporation)
PI US 2001021534 A1 20010913
AI US 2001-771796 A1 20010129 (9)
RLI Continuation of Ser. No. US 1996-715163, filed on 17 Sep 1996, GRANTED,
Pat. No. US 6207369 Continuation-in-part of Ser. No. US 1996-611804,
filed on 6 Mar 1996, GRANTED, Pat. No. US 6066448 Continuation-in-part
of Ser. No. US 1995-402076, filed on 10 Mar 1995, ABANDONED
Continuation-in-part of Ser. No. US 1995-402277, filed on 10 Mar 1995,
ABANDONED
DT Utility
FS APPLICATION
LREP Kramer Levin Naftalis & Frankel LLP, 919 THIRD AVENUE, NEW YORK, NY,
10022
CLMN Number of Claims: 74
ECL Exemplary Claim: 1
DRWN 39 Drawing Page(s)
LN.CNT 6383

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Materials and methods are provided for producing patterned multi-array,
multi-specific surfaces for use in diagnostics. The invention provides
for electrochemiluminescence methods for detecting or measuring an
analyte of interest. It also provides for novel electrodes for ECL
assays. Materials and methods are provided for the chemical and/or
physical control of conducting domains and reagent deposition for use
multiply specific testing procedures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 13 OF 17 USPATFULL on STN
AN 2001:43927 USPATFULL
TI Multi-array, multi-specific electrochemiluminescence testing
IN Wohlstadter, Jacob N., Rockville, MD, United States
Wilbur, James, Rockville, MD, United States
Sigal, George, Gaithersburg, MD, United States
Martin, Mark, Rockville, MD, United States
Guo, Liang-Hong, Laurel, MD, United States
Fischer, Alan, Cambridge, MA, United States
Leland, Jon, Silver Spring, MD, United States
Billadeau, Mark A., Mt. Airy, MD, United States
PA Meso Scale Technologies, LLC, Gaithersburg, MD, United States (U.S.
corporation)
PI US 6207369 B1 20010327
AI US 1996-715163 19960917 (8)
RLI Continuation-in-part of Ser. No. US 1996-611804, filed on 6 Mar 1996,
now patented, Pat. No. US 6066448 Continuation-in-part of Ser. No. US
1995-402076, filed on 10 Mar 1995, now abandoned Continuation-in-part of
Ser. No. US 1995-402277, filed on 10 Mar 1995, now abandoned
DT Utility
FS Granted
EXNAM Primary Examiner: Chin, Christopher L.
LREP Kramer Levin Naftalis & Frankel LLP
CLMN Number of Claims: 13
ECL Exemplary Claim: 1
DRWN 87 Drawing Figure(s); 47 Drawing Page(s)
LN.CNT 6321

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Materials and methods are provided for producing patterned multi-array,
multi-specific surfaces for use in diagnostics. The invention provides
for electrochemiluminescence methods for detecting or measuring an
analyte of interest. It also provides for novel electrodes for ECL
assays. Materials and methods are provided for the chemical and/or
physical control of conducting domains and reagent deposition for use
multiply specific testing procedures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 14 OF 17 USPATFULL on STN
AN 2000:146091 USPATFULL
TI Multi-array, multi-specific electrochemiluminescence testing
IN Wohlstadter, Jacob, Cambridge, MA, United States
Wilbur, James, Rockville, MD, United States
Sigal, George, Gaithersburg, MD, United States
Martin, Mark, Rockville, MD, United States
Guo, Liang-Hong, Laurel, MD, United States
Fischer, Alan, Cambridge, MA, United States
Leland, Jon, Silver Spring, MD, United States
PA Meso Scale Technologies, Gaithersburg, MD, United States (U.S.
corporation)
PI US 6140045 20001031
AI US 1997-814085 19970306 (8)
RLI Continuation-in-part of Ser. No. US 1995-402076, filed on 10 Mar 1995,
now abandoned which is a continuation of Ser. No. US 1995-402277, filed
on 10 Mar 1995, now abandoned
PRAI US 1996-12957P 19960306 (60)
DT Utility
FS Granted
EXNAM Primary Examiner: Chin, Christopher L.
LREP Whitman Breed Abbott & Morgan LLP
CLMN Number of Claims: 45

ECL Exemplary Claim: 1
DRWN 62 Drawing Figure(s); 26 Drawing Page(s)
LN.CNT 4524

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Materials and methods are provided for producing patterned multi-array, multi-specific surfaces which are electronically excited for use in electrochemiluminescence based tests. Materials and methods are provided for the chemical and/or physical control of conducting domains and reagent deposition for use in flat panel displays and multiply specific testing procedures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 15 OF 17 USPATFULL on STN
AN 2000:91700 USPATFULL
TI Multi-array, multi-specific electrochemiluminescence testing
IN Wohlstadter, Jacob, Rockville, MD, United States
Wilbur, James, Rockville, MD, United States
Sigal, George, Gaithersburg, MD, United States
Martin, Mark, Rockville, MD, United States
Guo, Liang-Hong, Laurel, MD, United States
Fischer, Alan, Cambridge, MA, United States
Leland, Jon, Silver Spring, MD, United States
PA Meso Scale Technologies, LLC., Gaithersburg, MD, United States (U.S. corporation)
PI US 6090545 20000718
AI US 1997-814141 19970306 (8)
RLI Continuation-in-part of Ser. No. US 1995-402076, filed on 10 Mar 1995
And a continuation-in-part of Ser. No. US 1995-402277, filed on 10 Mar 1995
PRAI US 1996-12958P 19960306 (60)
DT Utility
FS Granted
EXNAM Primary Examiner: Chin, Christopher L.
LREP Whitman Breed Abbott & Morgan LLP
CLMN Number of Claims: 80
ECL Exemplary Claim: 21
DRWN 60 Drawing Figure(s); 26 Drawing Page(s)
LN.CNT 4731

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Materials and methods are provided for producing patterned multi-array, multi-specific surfaces which are electronically excited for use in electrochemiluminescence based tests. Materials and methods are provided for the chemical and/or physical control of conducting domains and reagent deposition for use in flat panel displays and multiply specific testing procedures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 16 OF 17 USPATFULL on STN
AN 2000:64674 USPATFULL
TI Multi-array, multi-specific electrochemiluminescence testing
IN Wohlstadter, Jacob N., Cambridge, MA, United States
Wilbur, James, Rockville, MD, United States
Sigal, George, Gaithersburg, MD, United States
Martin, Mark, Rockville, MD, United States
Guo, Liang-Hong, Laurel, MD, United States
Fischer, Alan, Cambridge, MA, United States
Leland, Jon, Silver Spring, MD, United States
PA Meso Sclae Technologies, LLC., Gaithersburg, MD, United States (U.S. corporation)
PI US 6066448 20000523
AI US 1996-611804 19960306 (8)
RLI Continuation-in-part of Ser. No. US 1995-402076, filed on 10 Mar 1995

which is a continuation-in-part of Ser. No. US 1995-402277, filed on 10 Mar 1995

DT Utility
FS Granted
EXNAM Primary Examiner: Chin, Christian L.
LREP Whitman Breed Abbott & Morgan LLP
CLMN Number of Claims: 119
ECL Exemplary Claim: 1
DRWN 62 Drawing Figure(s); 26 Drawing Page(s)
LN.CNT 4770

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Materials and methods are provided for producing patterned multi-array, multi-specific surfaces which are electronically excited for use in electrochemiluminescence based tests. Materials and methods are provided for the chemical and/or physical control of conducting domains and reagent deposition for use in flat panel displays and multiply specific testing procedures.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 17 OF 17 USPATFULL on STN
AN 2000:57621 USPATFULL
TI Molecular wire injection sensors
IN Keen, Randy E., San Diego, CA, United States
PA Keensense, Inc., San Diego, CA, United States (U.S. corporation)
PI US 6060327 20000509
AI US 1997-856822 19970514 (8)
DT Utility
FS Granted
EXNAM Primary Examiner: Chin, Christopher L.
LREP Beyer & Weaver, LLP
CLMN Number of Claims: 36
ECL Exemplary Claim: 1
DRWN 7 Drawing Figure(s); 6 Drawing Page(s)
LN.CNT 2968

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a sensor for sensing the presence of an analyte component without relying on redox mediators. This sensor includes (a) a plurality of conductive polymer strands each having at least a first end and a second end and each aligned in a substantially common orientation; (b) a plurality of molecular recognition headgroups having an affinity for the analyte component and being attached to the first ends of the conductive polymer strands; and (c) an electrode substrate attached to the conductive polymer strands at the second ends. The electrode substrate is capable of reporting to an electronic circuit reception of mobile charge carriers (electrons or holes) from the conductive polymer strands. The electrode substrate may be a photovoltaic diode.

Also disclosed is method of forming a sensor capable of sensing the presence of an analyte component. This method includes (a) contacting a sensor substrate (e.g., a device element of a device on semiconductor chip) with a first medium containing mobile conductive polymer strands or precursors of the conductive polymer strands; (b) applying a first potential to the substrate sufficient to form a first structure having the conductive polymer strands affixed to the substrate; (c) contacting the sensor substrate, with affixed conductive polymer strands, with a second medium containing mobile molecular recognition headgroups; and (d) applying a second potential to the substrate sufficient to affix the molecular recognition headgroups to the affixed conductive polymer strands.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.